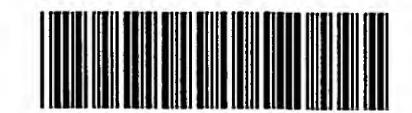# RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _____10/559,438_____

Source: _____JFWP_____

Date Processed by STIC: _____12/16/2005_____

ENTERED

RAW SEQUENCE LISTING   DATE: 12/16/2005
PATENT APPLICATION: US/10/559,438   TIME: 15:35:24

Input Set : A:\ALEX-P01-107.seq.txt
Output Set: N:\CRF4\12162005\J559438.raw

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   3 <110> APPLICANT: McWhirter, John
   5 <120> TITLE OF INVENTION: CELL SURFACE PROTEIN ASSOCIATED WITH HUMAN CHRONIC
LYMPHOCYTIC
   6        LEUKEMIA
   8 <130> FILE REFERENCE: 107 PCT (1087-86 PCT)
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/559,438
C--> 11 <141> CURRENT FILING DATE: 2005-12-02
  13 <150> PRIOR APPLICATION NUMBER: US 60/530,094
  14 <151> PRIOR FILING DATE: 2003-12-15
  16 <150> PRIOR APPLICATION NUMBER: US 60/475,156
  17 <151> PRIOR FILING DATE: 2003-06-02
  19 <160> NUMBER OF SEQ ID NOS: 86
  21 <170> SOFTWARE: PatentIn version 3.2
  23 <210> SEQ ID NO: 1
  24 <211> LENGTH: 183
  25 <212> TYPE: PRT
  26 <213> ORGANISM: human
  28 <400> SEQUENCE: 1
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  31 1               5                   10                  15
  34 Val Pro Val Gly Arg Gly Asn Tyr Glu Glu Leu Glu Asn Ser Gly Asp
  35              20                  25                  30
  38 Thr Thr Val Glu Ser Glu Arg Pro Asn Lys Val Thr Ile Pro Ser Thr
  39          35                  40                  45
  42 Phe Ala Ala Val Thr Ile Lys Glu Thr Leu Asn Ala Asn Ile Asn Ser
  43      50                  55                  60
  46 Thr Asn Phe Ala Pro Asp Glu Asn Gln Leu Glu Phe Ile Leu Met Val
  47 65                  70                  75                  80
  50 Leu Ile Pro Leu Ile Leu Leu Val Leu Leu Leu Leu Ser Val Val Phe
  51              85                  90                  95
  54 Leu Ala Thr Tyr Tyr Lys Arg Lys Arg Thr Lys Gln Glu Pro Ser Ser
  55              100                 105                 110
  58 Gln Gly Ser Gln Ser Ala Leu Gln Thr Tyr Glu Leu Gly Ser Glu Asn
  59          115                 120                 125
  62 Val Lys Val Pro Ile Phe Glu Glu Asp Thr Pro Ser Val Met Glu Ile
  63      130                 135                 140
  66 Glu Met Glu Glu Leu Asp Lys Trp Met Asn Ser Met Asn Arg Asn Ala
  67 145                 150                 155                 160
  70 Asp Phe Glu Cys Leu Pro Thr Leu Lys Glu Glu Lys Glu Ser Asn His
  71              165                 170                 175
  74 Asn Pro Ser Asp Ser Glu Ser
  75              180
  78 <210> SEQ ID NO: 2
  79 <211> LENGTH: 675
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RAW SEQUENCE LISTING   DATE: 12/16/2005
PATENT APPLICATION: US/10/559,438   TIME: 15:35:24

Input Set : A:\ALEX-P01-107.seq.txt
Output Set: N:\CRF4\12162005\J559438.raw

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81  <213> ORGANISM: human
83  <400> SEQUENCE: 2
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86  tccccgcgca gccctagtct tcgccctggt gatcgcgctc gttcccgtcg gccggggtaa   120
88  ttatgaggaa ttagaaaact caggagatac aactgtggaa tctgaaagac caaataaagt   180
90  gactattcca agcacatttg ctgcagtgac catcaaagaa acattaaatg caaatataaa   240
92  ttctaccaac tttgctccgg atgaaaatca gttagagttt atactgatgg tgttaatccc   300
94  attgatttta ttggtcctct tactttttatc cgtggtattc cttgcaacat actataaaag   360
96  aaaaagaact aacaagaacc ttctagccaa ggatctcaga gtgctttaca gacatatgaa   420
98  ctgggaagtg aaaacgtgaa agtccctatt tttgaggaag atacaccctc tgttatggaa   480
100 attgaaatgg aagagcttga taaatggatg aacagcatga atagaaatgc cgactttgaa   540
102 tgtttaccta ccttgaagga agagaaggaa tcaaatcaca acccaagtga cagtgaatcc   600
104 taaacctgaa tggcgctcat gttttccaag agaagcagcc cctgagggag tctgctgagg   660
106 ctgccaacag gatcc                                                     675
109 <210> SEQ ID NO: 3
110 <211> LENGTH: 181
111 <212> TYPE: PRT
112 <213> ORGANISM: murine
114 <400> SEQUENCE: 3
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117 1               5                   10                  15
120 Gly Gln Ser Ser Gln Gly Asn Asp Glu Glu Ser Glu Tyr Ser Gly Gln
121             20                  25                  30
124 Ser Ile Thr Glu Glu Glu Asn Ser Glu Asp Glu Thr Thr Arg Ser Ala
125         35                  40                  45
128 Leu Ala Thr Val Thr Thr Glu Ala Leu Ala Glu Asn Val Asn Ser Thr
129     50                  55                  60
132 His Thr Asn Asp Thr Ser Asn Gln Val Glu Phe Ile Leu Met Val Ala
133 65                  70                  75                  80
136 Ile Pro Leu Ala Ala Leu Leu Ile Leu Leu Phe Met Val Leu Ile Ala
137             85                  90                  95
140 Thr Tyr Phe Lys Ser Lys Arg Pro Lys Gln Glu Pro Ser Ser Gln Gly
141             100                 105                 110
144 Ser Gln Ser Ala Leu Gln Thr His Glu Leu Gly Gly Glu Thr Leu Lys
145             115                 120                 125
148 Val Pro Ile Phe Glu Glu Asp Thr Pro Ser Val Met Glu Ile Glu Met
149     130                 135                 140
152 Glu Glu Leu Asp Lys Trp Met Asn Ser Met Asn Arg Asn Ala Asp Tyr
153 145                 150                 155                 160
156 Glu Cys Leu Pro Thr Leu Lys Glu Glu Lys Glu Pro Asn Pro Ser Pro
157                 165                 170                 175
160 Ser Asp Asn Glu Ser
161             180
164 <210> SEQ ID NO: 4
165 <211> LENGTH: 367
166 <212> TYPE: PRT
167 <213> ORGANISM: rat
169 <400> SEQUENCE: 4
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171 Met Thr Arg Pro Pro Tyr Gln Glu Ala Pro Val Gly Asp Leu Gln Met
172 1                   5                  10                  15
175 Gly Asp Arg Gln Glu Ser Ser Gly Asp Lys Asp Arg Asn Asp Glu Asp
176             20                  25                  30
179 Ser Glu Tyr Ser Gly His Ser Thr Thr Glu Glu Asp Thr Ala Glu Glu
180         35                  40                  45
183 Glu Thr Thr Arg Ala Leu Ala Thr Val Thr Thr Glu Ala Leu Ala Glu
184     50                  55                  60
187 Ser Ala Asn Ser Thr His Ile His Gly Thr Ser Asn Gln Val Glu Phe
188 65                  70                  75                  80
191 Ile Leu Met Val Ala Val Pro Leu Ala Ala Leu Leu Ile Leu Leu Phe
192             85                  90                  95
195 Ala Ile Leu Ile Val Ile Tyr Phe Lys Ser Arg Arg Pro Lys Gln Glu
196             100                 105                 110
199 Pro Ser Ser Gln Gly Ser Gln Ser Ala Leu Gln Thr Leu Arg Leu Leu
200         115                 120                 125
203 Leu Ser Leu Glu Thr Lys Arg Pro Glu Pro Ser Val Ala Pro Ser Leu
204     130                 135                 140
207 Gly Pro Arg Pro Thr Ile Pro Leu Pro Thr Ala Gln Arg Gly Pro Cys
208 145                 150                 155                 160
211 Gln Gln Ser Gly Cys Lys Ala Gly Thr Lys Gly Gly Arg Gln Asp Arg
212             165                 170                 175
215 Gly Glu Asn Glu Met Ala Gly Arg Lys Gly Thr Lys Trp Lys Pro Val
216             180                 185                 190
219 Gly Asn Gly Pro Gly Ala Glu Lys Met Arg Pro Gln Lys Ala Phe Cys
220             195                 ·200                205
223 Ser Phe Asn Ala Asp Tyr Gly Ala Ser His Ser Val His Leu Glu His
224     210                 215                 220
227 Phe Gly Asn Gly Phe Leu Asn Phe Ser Ile Ile Cys Met Gln Val Gly
228 225                 230                 235                 240
231 Phe Cys Pro Pro Pro Ser Leu Trp Gly Ala Gln Met Arg Val Glu Ile
232             245                 250                 255
235 Arg Ala His Ser Gly Thr Val Glu Pro Leu Ala Val Trp Glu Ile Gly
236             260                 265                 270
239 Gly Glu Val Ala Lys Gln Gly Lys Gly Thr Asp Asp Leu Gly Gly Glu
240         275                 280                 285
243 Thr Leu Lys Val Pro Ile Phe Glu Glu Asp Thr Pro Ser Val Met Glu
244     290                 295                 300
247 Ile Glu Met Glu Glu Leu Asp Lys Trp Met Asn Ser Met Asn Arg Asn
248 305                 310                 315                 320
251 Gly Thr Trp Lys Thr Lys Ala Phe Ala Cys Leu Cys Gly Asn Ala Gly
252             325                 330                 335
255 Leu Asp Gly Cys Leu Cys Phe Ile Ser Asn Ser Glu Asn Leu Lys Leu
256             340                 345                 350
259 Cys Phe Ile Trp His Ser Thr Cys Ala Leu Leu Lys Asp Pro Val
260             355                 360                 365
263 <210> SEQ ID NO: 5
264 <211> LENGTH: 703
265 <212> TYPE: DNA
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RAW SEQUENCE LISTING   DATE: 12/16/2005
PATENT APPLICATION: **US/10/559,438**   TIME: 15:35:24

Input Set : **A:\ALEX-P01-107.seq.txt**
Output Set: **N:\CRF4\12162005\J559438.raw**

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266 <213> ORGANISM: artificial sequence
268 <220> FEATURE:
269 <223> OTHER INFORMATION: FLJ32028 with an HA epitope tag
271 <400> SEQUENCE: 5
272 aagcttagcc cggcgcagca tcctgagcgc gcctctgccg aggcgagcgg acatgcaggc    60
274 tccccgcgca gccctagtct tcgccctggt gatcgcgctc gttcccgtcg gccggggtaa   120
276 ttatccatat gatgttccag attatgctta tgaggaatta gaaaactcag gagatacaac   180
278 tgtggaatct gaaagaccaa ataaagtgac tattccaagc acatttgctg cagtgaccat   240
280 caaagaaaca ttaaatgcaa atataaattc taccaacttt gctccggatg aaaatcagtt   300
282 agagtttata ctgatggtgt taatcccatt gattttattg gtcctcttac ttttatccgt   360
284 ggtattcctt gcaacatact ataaaagaaa aagaactaaa caagaacctt ctagccaagg   420
286 atctcagagt gctttacaga catatgaact gggaagtgaa aacgtgaaag tccctatttt   480
288 tgaggaagat acaccctctg ttatggaaat tgaaatggaa gagcttgata aatggatgaa   540
290 cagcatgaat agaaatgccg actttgaatg tttacctacc ttgaaggaag agaaggaatc   600
292 aaatcacaac ccaagtgaca gtgaatccta aacctgaatg gcgctcatgt tttccaagag   660
294 aagcagcccc tgagggagtc tgctgaggct gccaacagga tcc                     703
297 <210> SEQ ID NO: 6
298 <211> LENGTH: 192
299 <212> TYPE: PRT
300 <213> ORGANISM: artificial sequence
302 <220> FEATURE:
303 <223> OTHER INFORMATION: FLJ32028 with HA epitope tag
305 <400> SEQUENCE: 6
307 Met Gln Ala Pro Arg Ala Ala Leu Val Phe Ala Leu Val Ile Ala Leu
308 1               5                   10                  15
311 Val Pro Val Gly Arg Gly Asn Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
312             20                  25                  30
315 Tyr Glu Glu Leu Glu Asn Ser Gly Asp Thr Thr Val Glu Ser Glu Arg
316         35                  40                  45
319 Pro Asn Lys Val Thr Ile Pro Ser Thr Phe Ala Ala Val Thr Ile Lys
320     50                  55                  60
323 Glu Thr Leu Asn Ala Asn Ile Asn Ser Thr Asn Phe Ala Pro Asp Glu
324 65                  70                  75                  80
327 Asn Gln Leu Glu Phe Ile Leu Met Val Leu Ile Pro Leu Ile Leu Leu
328                 85                  90                  95
331 Val Leu Leu Leu Leu Ser Val Val Phe Leu Ala Thr Tyr Tyr Lys Arg
332             100                 105                 110
335 Lys Arg Thr Lys Gln Glu Pro Ser Ser Gln Gly Ser Gln Ser Ala Leu
336         115                 120                 125
339 Gln Thr Tyr Glu Leu Gly Ser Glu Asn Val Lys Val Pro Ile Phe Glu
340     130                 135                 140
343 Glu Asp Thr Pro Ser Val Met Glu Ile Glu Met Glu Glu Leu Asp Lys
344 145                 150                 155                 160
347 Trp Met Asn Ser Met Asn Arg Asn Ala Asp Phe Glu Cys Leu Pro Thr
348                 165                 170                 175
351 Leu Lys Glu Glu Lys Glu Ser Asn His Asn Pro Ser Asp Ser Glu Ser
352             180                 185                 190
355 <210> SEQ ID NO: 7
356 <211> LENGTH: 637
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RAW SEQUENCE LISTING   DATE: 12/16/2005
PATENT APPLICATION: US/10/559,438   TIME: 15:35:24

Input Set : A:\ALEX-P01-107.seq.txt
Output Set: N:\CRF4\12162005\J559438.raw

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357 <212> TYPE: DNA
358 <213> ORGANISM: artificial sequence
360 <220> FEATURE:
361 <223> OTHER INFORMATION: FLJ32028 with HA epitope tag
363 <400> SEQUENCE: 7
364 aagcttagcc cggcgcagca tcctgagcgc gcctctgccg aggcgagcgg acatgcaggc    60
366 tccccgcgca gccctagtct tcgccctggt gatcgcgctc gttcccgtcg gccggggtaa   120
368 ttatgaggaa ttagaaaact caggagatac aactgtggaa tctgaaagac caaataaagt   180
370 gactattcca agcacatttg ctgcagtgac catcaaagaa acattaaatg caaatataaa   240
372 ttctaccaac tttgctccgg atgaaaatca gttagagttt atactgatgg tgttaatccc   300
374 attgatttta ttggtcctct tactttatc cgtggtattc cttgcaacat actataaaag   360
376 aaaaagaact aaacaagaac cttctagcca aggatctcag agtgctttac agacatatga   420
378 actgggaagt gaaaacgtga aagtccctat ttttgaggaa gatacaccct ctgttatgga   480
380 aattgaaatg gaagagcttg ataaatggat gaacagcatg aatagaaatg ccgactttga   540
382 atgtttacct accttgaagg aagagaagga atcaaatcac aacccaagtg acagtgaatc   600
384 ctatccatat gatgttccag attatgctta aggatcc                            637
387 <210> SEQ ID NO: 8
388 <211> LENGTH: 192
389 <212> TYPE: PRT
390 <213> ORGANISM: artificial sequence
392 <220> FEATURE:
393 <223> OTHER INFORMATION: FLJ32028 with HA epitope tag
395 <400> SEQUENCE: 8
397 Met Gln Ala Pro Arg Ala Ala Leu Val Phe Ala Leu Val Ile Ala Leu
398 1               5                   10                  15
401 Val Pro Val Gly Arg Gly Asn Tyr Glu Glu Leu Glu Asn Ser Gly Asp
402             20                  25                  30
405 Thr Thr Val Glu Ser Glu Arg Pro Asn Lys Val Thr Ile Pro Ser Thr
406         35                  40                  45
409 Phe Ala Ala Val Thr Ile Lys Glu Thr Leu Asn Ala Asn Ile Asn Ser
410     50                  55                  60
413 Thr Asn Phe Ala Pro Asp Glu Asn Gln Leu Glu Phe Ile Leu Met Val
414 65                  70                  75                  80
417 Leu Ile Pro Leu Ile Leu Leu Val Leu Leu Leu Ser Val Val Phe
418             85                  90                  95
421 Leu Ala Thr Tyr Tyr Lys Arg Lys Arg Thr Lys Gln Glu Pro Ser Ser
422             100                 105                 110
425 Gln Gly Ser Gln Ser Ala Leu Gln Thr Tyr Glu Leu Gly Ser Glu Asn
426             115                 120                 125
429 Val Lys Val Pro Ile Phe Glu Glu Asp Thr Pro Ser Val Met Glu Ile
430     130          ·           135                 140
433 Glu Met Glu Glu Leu Asp Lys Trp Met Asn Ser Met Asn Arg Asn Ala
434 145                 150                 155                 160
437 Asp Phe Glu Cys Leu Pro Thr Leu Lys Glu Glu Lys Glu Ser Asn His
438             165                 170                 175
441 Asn Pro Ser Asp Ser Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
442             180                 185                 190
445 <210> SEQ ID NO: 9
446 <211> LENGTH: 1421
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 12/16/2005
PATENT APPLICATION: US/10/559,438   TIME: 15:35:25

Input Set : **A:\ALEX-P01-107.seq.txt**
Output Set: **N:\CRF4\12162005\J559438.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:9; N Pos. 40
Seq#:10; Xaa Pos. 14,220
Seq#:85; Xaa Pos. 3,5,10,13,14,16,17,19,21,32,39,40,42,61,66,67,68,92,120
Seq#:85; Xaa Pos. 172,174,175

VERIFICATION SUMMARY   DATE: 12/16/2005
PATENT APPLICATION: **US/10/559,438**   TIME: 15:35:25

Input Set : **A:\ALEX-P01-107.seq.txt**
Output Set: **N:\CRF4\12162005\J559438.raw**

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:457 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:576 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:208
L:2444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:0
L:2448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:16
L:2452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:32
L:2456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:48
L:2460 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:64
L:2464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:80
L:2472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:112
L:2484 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:160